

ABSTRACT OF THE DISCLOSURE

The subject invention relates in part to the oral administration of ecdysteroids for controlling subterranean termites. Preferred ecdysteroids for use according to the subject invention are ecdysone, certain ecdysone analogs, and 20-hydroxyecdysone, for example. In
5 some preferred embodiments, one or more of these compounds is used in a termite bait in combination with one or more chitin synthesis inhibitors (CSI), such as hexaflumuron and/or noviflumuron. The subject invention also relates to mixtures comprising these two active ingredients. The ecdysteroid analog or molt-accelerating compound (MAC) typically induces a preliminary molting event in termite workers, which then allows the CSI to further disrupt the
10 molt and cause mortality. The combination of these active ingredients, causing accelerated molting together with inhibition of chitin synthesis, is surprisingly shown herein to enhance activity against termites, as compared to either group of compounds alone.